AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

Claims 1-24 (Canceled).

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25. (Currently Amended) A gas injector for supplying process gas to a plasma processing chamber wherein a semiconductor substrate is subjected to plasma processing, the gas injector comprising:

gas injector body sized to extend through a chamber wall of the processing chamber such that an axial distal end surface of the gas injector body is exposed within the processing chamber, the gas injector body including a plurality of gas outlets adapted to supply process gas into the processing chamber, the gas outlets including a center gas outlet extending in the axial direction and a plurality of angled gas outlets extending at an acute angle to the axial direction, wherein the gas outlets are located in the axial distal end surface of the gas injector body and the gas outlets being sized to inject the process gas at a subsonic, sonic, or supersonic velocity.

Claims 26-27 (Canceled).

28. (Currently Amended) The gas injector of Claim 25, wherein the gas outlets are sized to inject the process gas at a subsonic, sonic, or supersonic velocity the gas outlets

- 34. (Previously Presented) The gas injector of Claim 25, wherein the gas injector body includes an annular flange adapted to overlie and contact an outer surface of the chamber wall.
- 35. (Previously Presented) The gas injector of Claim 25, wherein the gas injector body includes at least one O-ring seal on an outer surface of the gas injector body.
- 36. (Previously Presented) The gas injector of Claim 25, wherein the gas injector body includes a first O-ring seal on an outer surface of the gas injector body and a second O-ring seal in a surface of a flange extending from the outer surface of the gas injector body.
- 37. (Previously Presented) The gas injector of Claim 25, wherein the distal end of the gas injector body is substantially planar.
- 38. (Previously Presented) The gas injector of Claim 25, wherein all of the gas outlets supply process gas through the distal end of the gas injector body.
- 39. (Previously Amended) A gas injector for supplying process gas to a plasma processing chamber wherein a semiconductor substrate is subjected to plasma processing, the gas injector comprising:

gas injector body sized to extend through a chamber wall of the processing chamber such that an axial distal end surface of the gas injector body is exposed within the

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processing chamber, the gas injector body including a plurality of gas outlets adapted to supply process gas into the processing chamber, the gas outlets including a center gas outlet extending in the axial direction and a plurality of angled gas outlets extending at an acute angle to the axial direction, wherein the gas outlets are located in the axial distal end surface of the gas injector body;

an annular flange adapted to overlie and contact an outer surface of the chamber wall; and

a first O-ring in a surface of the flange for sealing against the outer surface of the chamber wall.

- 40 (Previously Presented) The gas injector of Claim 39, comprising a second O-ring seal on an outer surface of the gas injector body.
- 41. (Previously Presented) The gas injector of Claim 25, wherein the gas injector body includes a uniform diameter central bore extending axially from an upper axial end face of the gas injector body, the central bore being defined by a cylindrical sidewall and a flat endwall, inlets of the gas outlets being located on the flat endwall.
- 42. (Previously Presented) The gas injector of Claim 25, wherein the gas injector body is made of dielectric material.

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- (Currently Amended) The gas injector of Claim 25 28, wherein the gas 43. injector body includes 8 of the angled gas outlets.
- (Currently Amended) The gas injector of Claim 25 28, wherein the acute angle is 10 to 70° .



